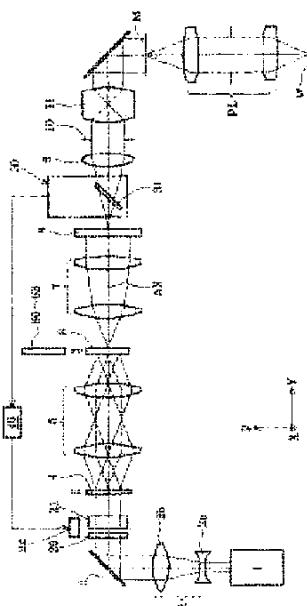


**LIGHTING OPTICAL DEVICE, EXPOSURE APPARATUS AND EXPOSURE METHOD****Publication number:** JP2005108925 (A)**Publication date:** 2005-04-21**Inventor(s):** HIROTA HIROYUKI; SHIGEMATSU KOJI +**Applicant(s):** NIPPON KOGAKU KK +**Classification:****- international:** G03F7/20; H01L21/027; G03F7/20; H01L21/02; (IPC1-7): G03F7/20; H01L21/027**- European:****Application number:** JP20030336870 20030929**Priority number(s):** JP20030336870 20030929**Abstract of JP 2005108925 (A)**

**PROBLEM TO BE SOLVED:** To provide a lighting optical device which detects the state of polarization of illumination light, based on a comparatively simple and compact configuration. ; **SOLUTION:** The lighting optical device which illuminates a irradiated surface (M, W) with a light from a light source (1) is equipped with a beam splitter (31) which is arranged in an optical path between the light source and the irradiated surface, and takes out a reflected light (or transmitted light) in a state of polarization different from a state of polarization of an incident light; and a light intensity detector (33) for detecting the intensity of the reflected light (or transmitting light) taken out from the optical path by the beam splitter. The state of polarization of an incident light to the beam splitter is detected, based on the output of the light intensity detector. ;

**COPYRIGHT:** (C)2005,JPO&NCIPI

---

Data supplied from the **espacenet** database — Worldwide

(19) 日本国特許庁(JP)

## (12) 公開特許公報(A)

(11) 特許出願公開番号

特開2005-108925

(P2005-108925A)

(43) 公開日 平成17年4月21日(2005.4.21)

(51) Int.Cl.<sup>7</sup>H01L 21/027  
G03F 7/20

F 1

H01L 21/30 515D  
G03F 7/20 521

テーマコード(参考)

5FO46

検索請求 未請求 請求項の数 13 O.L. (全 19 頁)

(21) 出願番号

特願2003-336870 (P2003-336870)

(22) 出願日

平成15年9月29日 (2003.9.29)

(71) 出願人 000004112

株式会社ニコン

東京都千代田区丸の内3丁目2番3号

(74) 代理人 100095256

弁理士 山口 孝雄

(72) 発明者 廣田 弘之

東京都千代田区丸の内3丁目2番3号 株

式会社ニコン内

(72) 発明者 重松 幸二

東京都千代田区丸の内3丁目2番3号 株

式会社ニコン内

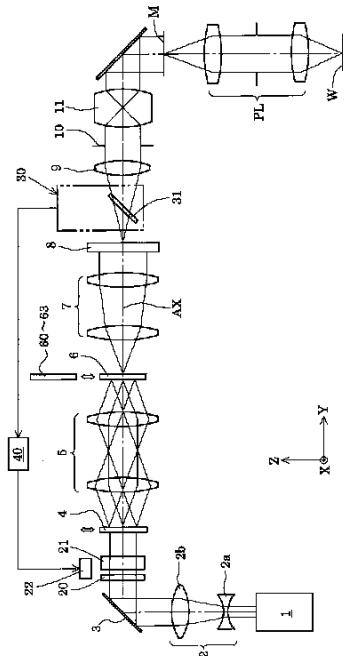
F ターム(参考) 5FO46 CA04 CB01 CB05 CB07 CB10

CB12 CB13 CB15 CB19 CB23

DA14 DB01 DC02

(54) 【発明の名称】 照明光学装置、露光装置および露光方法

(57)



10

20

30

40

50

10

20

30

40

50

10

20

30

40

50

10

20

30

40

50

10

20

30

40

50

10

20

( )

30

40

50

10

20

30

40

50

10

20

30

40

50

10

20

30

40

50

10

20

30

40

50

10

20

30

40

50

10

20

30

40

50

10

20

30

40

50

10

20

30

2

40

50

10

Red                    Green                    Blue

20

30

2

40

50



